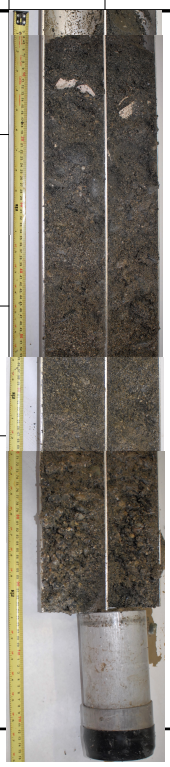
CORE LOG

Project: EHOU Monitoring 2017	Station ID: J7-c5	Location: Eagle Harbor	Page 1 of 1

Lat:	Long:	Datum:	Name of Driller:	Drilling Firm:
47°37.15569	122°30.20065	NAD 83/91	SEE/HDR	Marine Sampling Services

Collection Date: 20 Jan 2017	Collection Time: 11:37 AM	Core Type: vibracore	Core Size: 4 (in)
Elevation: -3.8 ft	Elevation Datum: MLLW	Penetration: 7 ft	Acquisition: 3.6 ft
Tide Time/Height: 11:40:00 AM / 12.5 ft		Percent Recovery: 51.4%	Accept/Reject: Accepted
Date Logged: 25 Jan 2017	Time Logged: 11:05 AM	Name of Core Logger: David Browning	Name of Sampler:

Depth (ft)	USCS	Munsell Color	Core Photos	Sample Depth (ft)	Sample Number	Log	CORE MATERIAL DESCRIPTION
0	SP	2.5Y 3/1			No sample s taken. Cores were photographed, logged, and noted for presence/absence of hydrocarbons		POORLY GRADED SAND, (SP) (2.5Y 3/1), sand grained, SAND, with shell frag, no odor, damp, poorly sorted, soft, no staining Soft, damp, slightly silty, medium sand with several large hose clam sheel fragments (4 - 8 cm). No odor, no sheen. Few strands of algae at the surface
0.6							
1	GP	2.5Y 4/1					POORLY GRADED GRAVEL WITH SAND, (GP) (2.5Y 4/1), gravel grained, SANDY GRAVEL, trace clay, no odor, damp, poorly sorted, firm, no staining Firm, damp, trace clayey sandy gravel. Clay floats out with application of water. No odor, no sheen
1.5							
2	GP	2.5Y 4/2					POORLY GRADED GRAVEL WITH SAND, (GP) (2.5Y 4/2), gravel grained, SANDY GRAVEL, no odor, damp, poorly sorted, loose, no staining Loose, damp, sandy fine gravel. No fines in the interstices. No odor, no sheen
2.1							
3	GP-GC	2.5Y 4/1					POORLY GRADED GRAVEL WITH CLAY AND SAND, (GP-GC) (2.5Y 4/1), gravel grained, SANDY GRAVEL, trace clay, no odor, damp, poorly sorted, dense, no staining Dense, damp, slightly clayey sandy gravel. Fines are interstitial to sands and gravels. Gravels are lithic and rounded to sub-rounded. Glacial material
4							
5							
6							
7							

Acquisition Depth -7.4 feet.
Actual bottom of borehole at 7.0 feet.

Surface Elevation has been corrected for Tide Height, and all subsequent elevations are calculated from Surface Elevation. All depths expressed are distance below mudline.

CORE LOG

Project: EHOU Monitoring 2017	Station ID: J8-c3	Location: Eagle Harbor	Page 1 of 1

Lat:	Long:	Datum:	Name of Driller:	Drilling Firm:
47°37.13253	122°30.19381	NAD 83/91	SEE/HDR	Marine Sampling Services

Collection Date: 20 Jan 2017	Collection Time: 12:14 PM	Core Type: vibracore	Core Size: 4 (in)
Elevation: -5.2 ft	Elevation Datum: MLLW	Penetration: 4.7 ft	Acquisition: 2.2 ft
Tide Time/Height: 12:28:00 PM / 11.9 ft		Percent Recovery: 46.8%	Accept/Reject: Accepted
Date Logged: 25 Jan 2017	Time Logged: 12:00 AM	Name of Core Logger: David Browning	Name of Sampler:

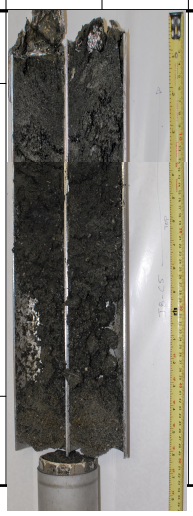
Depth (ft)	USCS	Munsell Color	Core Photos	Sample Depth (ft)	Sample Number	Log	CORE MATERIAL DESCRIPTION
1	GP	2.5Y 3/1	Core photos from 0 - 1 ft bms washed out and unuseable		No sample s taken. Cores were photographed, logged, and noted for presence/absence of hydrocarbons		POORLY GRADED GRAVEL WITH SAND, (GP) (2.5Y 3/1), gravel grained, SANDY GRAVEL, trace silt, some shell frag, hydrogen sulfide odor, moist, poorly sorted, firm, no staining Loose, moist, very sandy gravel. Sands and gravels are lithic and subrounded. Slight H2S odor in upper 6 cm. Minor (<10%) silt component in uper core. Several small shell fragments in upper 10 cm. Shell frags are *Tresus capax*, barnacles on one 2 cm gravel at top of core. Becomes more consolidated/harder with depth in core as gravels become more compact
2	GP	2.5Y 3/3					1.8 POORLY GRADED GRAVEL WITH SAND, (GP) (2.5Y 3/3), gravel grained, SANDY GRAVEL, trace silt, some shell frag, hydrogen sulfide odor, moist, poorly sorted, firm, no staining
3							Acquisition Depth -7.4 feet. Actual bottom of borehole at 4.7 feet. Surface Elevation has been corrected for Tide Height, and all subsequent elevations are calculated from Surface Elevation. All depths expressed are distance below mudline.
4							
5							

CORE LOG

Project: EHOU Monitoring 2017	Station ID: J8-c5 (2)	Location: Eagle Harbor	Page 1 of 1

Lat:	Long:	Datum:	Name of Driller:	Drilling Firm:
47°37.11528	122°30.20146	NAD 83/91	SEE/HDR	Marine Sampling Services

Collection Date: 20 Jan 2017	Collection Time: 9:40 AM	Core Type: vibracore	Core Size: 4 (in)
Elevation: -13.9 ft	Elevation Datum: MLLW	Penetration: 5 ft	Acquisition: 1.7 ft
Tide Time/Height: 9:48:00 AM / 12.6 ft		Percent Recovery: 34.0%	Accept/Reject: Accepted
Date Logged: 30 Dec 1899	Time Logged: 9:00 AM	Name of Core Logger: David Browning	Name of Sampler:

Depth (ft)	USCS	Munsell Color	Core Photos	Sample Depth (ft)	Sample Number	Log	CORE MATERIAL DESCRIPTION
0	SW	2.5Y 2.5/1			No sample s taken. Cores were photographed, logged, and noted for presence/absence of hydrocarbons		POORLY GRADED SAND WITH SILT, (SW) (2.5Y 2.5/1), fine grained, SILTY SAND, hydrogen sulfide odor, well sorted, soft Soft, moist, organic very silty find sand with moderate H2S odor, no sheen
0.3							POORLY GRADED SAND WITH SILT, (GP) (2.5Y 2.5/1), fine grained, SILTY SAND, hydrogen sulfide odor, well sorted, soft Firm, moist, slightly silty coarse sandy gravel. No odor, no sheen, poorly sorted, no grading. Gravels are lithic; rounded to subrounded. Stained from overlying deposit
1	GP	2.5Y 2.5/1					
1.4							POORLY GRADED SAND WITH GRAVEL, (SP) (5Y 3/2), sand grained, GRAVELLY SAND, no odor, moist, poorly sorted, firm, no staining Firm, damp, slightly gravelly, medium to coarse sand. No sorting, no grading, no odor or sheen. Gravels are subrounded lithics
2	SP	5Y 3/2					
3							
4							
5							

Acquisition Depth -15.6 feet.
Actual bottom of borehole at 5.0 feet.

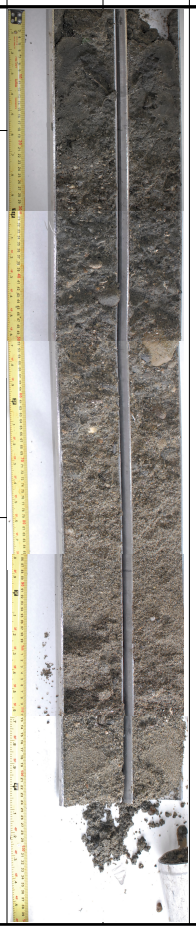
Surface Elevation has been corrected for Tide Height, and all subsequent elevations are calculated from Surface Elevation. All depths expressed are distance below mudline.

CORE LOG

Project: EHOU Monitoring 2017	Station ID: K7-c5	Location: Eagle Harbor	Page 1 of 1

Lat:	Long:	Datum:	Name of Driller:	Drilling Firm:
47°37.15716	122°30.14245	NAD 83/91	SEE/HDR	Marine Sampling Services

Collection Date: 20 Jan 2017	Collection Time: 11:10 AM	Core Type: vibracore	Core Size: 4 (in)
Elevation: -10 ft	Elevation Datum: MLLW	Penetration: 7 ft	Acquisition: 4.6 ft
Tide Time/Height: 11:12:00 AM / 12.8 ft		Percent Recovery: 65.7%	Accept/Reject: Accepted
Date Logged: 25 Jan 2017	Time Logged: 12:00 AM	Name of Core Logger: David Browning	Name of Sampler:

Depth (ft)	USCS	Munsell Color	Core Photos	Sample Depth (ft)	Sample Number	Log	CORE MATERIAL DESCRIPTION
0	SP	5Y 4/2			No sample s taken. Cores were photographed, logged, and noted for presence/absence of hydrocarbons		POORLY GRADED SAND, (SP) (5Y 4/2), sand grained, SAND, slightly silt, trace shell frag, no odor, moist, poorly sorted, soft, no staining Soft, moist, slightly silty fine sand. 1-3 cm of slightly siltier material with a 2.5Y 3/2 color hue. Minor very small (25 mm) shell fragments No odor, no sheen. Attempted to float sheen throughout entire length of core
0.6							
1	GP	5Y 4/3					POORLY GRADED GRAVEL WITH SAND, (GP) (5Y 4/3), gravel grained, SANDY GRAVEL, some shell frag, no odor, damp, poorly sorted, firm, no staining Firm, damp, slightly silty, sandy gravel. Gravels are normally graded from 49-63 cm. Poorly graded below. Gravels are lithic and sub-rounded to rounded. 2 cm band from 63 - 65 cm where small shell fragments are also present in matrix. Gravels are up to 8 cm.
2							
2.6							
3	SP	5Y 4/2					POORLY GRADED SAND WITH GRAVEL, (SP) (5Y 4/2), sand grained, GRAVELLY SAND, no odor, damp, poorly sorted, firm, no staining Firm, damp, gravelly medium sand. No shell fragment. Gravels are rounded, no grading.
4							
5							
6							
7							

Acquisition Depth -14.6 feet.
Actual bottom of borehole at 7.0 feet.

Surface Elevation has been corrected for Tide Height, and all subsequent elevations are calculated from Surface Elevation. All depths expressed are distance below mudline.

CORE LOG

Project: EHOU Monitoring 2017	Station ID: K8-c5	Location: Eagle Harbor	Page 1 of 1

Lat:	Long:	Datum:	Name of Driller:	Drilling Firm:
47°37.11668	122°30.14176	NAD 83/91	SEE/HDR	Marine Sampling Services

Collection Date: 20 Jan 2017	Collection Time: 10:17 AM	Core Type: vibracore	Core Size: 4 (in)
Elevation: -3.9 ft	Elevation Datum: MLLW	Penetration: 7 ft	Acquisition: 4.7 ft
Tide Time/Height: 10:24:00 AM / 12.9 ft		Percent Recovery: 67.1%	Accept/Reject: Accepted
Date Logged: 25 Jan 2017	Time Logged: 9:55 AM	Name of Core Logger: David Browning	Name of Sampler: Tim Thompson

Depth (ft)	USCS	Munsell Color	Core Photos	Sample Depth (ft)	Sample Number	Log	CORE MATERIAL DESCRIPTION
1	SP	2.5Y 3/1			No sample s taken. Cores were photographed, logged, and noted for presence/absence of hydrocarbons		POORLY GRADED SAND, (SP) (2.5Y 3/1), sand grained, SAND, some shell fragments, no odor, moist, poorly sorted, soft, no staining Soft, moist, slightly silty, well-sorted medium sand. Shell fragments at surface. Polychaete at 25 cm. No sheen. Attempted to float out sheen - no sheen. Slight H2S odor in 0 - 4 cm
	GP	2.5Y 4/1					1.0 POORLY GRADED GRAVEL WITH SAND, (GP) (2.5Y 4/1), gravel grained, SANDY GRAVEL, little silt, no odor, moist, poorly sorted, firm, no staining Moist, firm, medium sandy gravel. Sands and gravels are lithic and sub-rounded. Minor silt component (<10%) 1.6
2	GP	2.5Y 3/3					POORLY GRADED GRAVEL WITH SAND, (GP) (2.5Y 3/3), gravel grained, SANDY GRAVEL, no odor, moist, poorly sorted, dense, no staining Moist, coarse, sandy gravels. Gravels and sands are lithic. No odor, no sheen. No fines in sand/gravel interstices. 2.3
3	GP	2.5Y 4/3					POORLY GRADED GRAVEL WITH CLAY AND SAND, (GP) (2.5Y 4/3), gravel grained, SANDY GRAVEL, slightly clay, no odor, damp, dense, no staining Dense, damp, slightly clayey coarse sandy gravel. Sand and gravel interstices filled with clay. Glacial gravels are sub-rounded to rounded up to 5-6 cm in long axis. Uniform throughout, No odor, no sheen.
4							4.2
	GP						(GP) END OF CORE CORE CATCHER
5							
6							
7							

Acquisition Depth -8.6 feet.
Actual bottom of borehole at -7.0 feet.

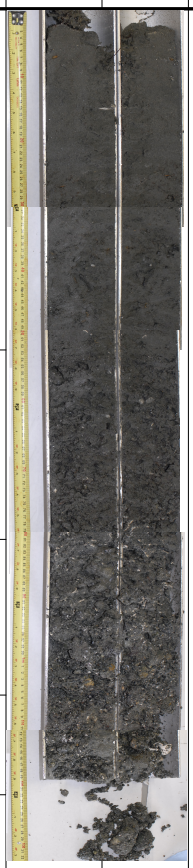
Surface Elevation has been corrected for Tide Height, and all subsequent elevations are calculated from Surface Elevation. All depths expressed are distance below mudline.

CORE LOG

Project: EHOU Monitoring 2017	Station ID: L8-c5	Location: Eagle Harbor	Page 1 of 1

Lat:	Long:	Datum:	Name of Driller:	Drilling Firm:
47°37.11640	122°30.08187	NAD 83/91	SEE/HDR	Marine Sampling Services

Collection Date: 20 Jan 2017	Collection Time: 10:52 AM	Core Type: vibracore	Core Size: 4 (in)
Elevation: -2.2 ft	Elevation Datum: MLLW	Penetration: 7 ft	Acquisition: 4.5 ft
Tide Time/Height: 10:50:00 AM / 12.9 ft		Percent Recovery: 64.3%	Accept/Reject: Accepted
Date Logged: 25 Jan 2017	Time Logged: 12:00 AM	Name of Core Logger: David Browning	Name of Sampler:

Depth (ft)	USCS	Munsell Color	Core Photos	Sample Depth (ft)	Sample Number	Log
1	SP-SM	2.5Y 3/1			No sample s taken. Cores were photographed, logged, and noted for presence/absence of hydrocarbons	
2	GP-GM	2.5Y 3/1				
3	GP	2.5Y 4/1				
4	GP-GC	2.5Y 4/1				
5						
6						
7						

CORE MATERIAL DESCRIPTION

POORLY GRADED SAND WITH SILT, (SP-SM) (2.5Y 3/1), fine to medium grained, SILTY SAND, with silt, some shell frag, no odor, moist, poorly sorted, firm, no staining.
Firm, damp, slightly slilty fine-to-medium sand.
Intact eelgrass at surface with turion
Several small shell fragments (*Macoma*)
Minor fragments of *Gracilaria* at sediment-water-interface Slight H2S odor, no sheen. Tried to float sheen out with water - no sheen

At 2 ft bms two, small 0.5 x 2 cm wood framgents

1.7

POORLY GRADED GRAVEL WITH SILT AND SAND, (GP-GM) (2.5Y 3/1), gravel grained, SANDY GRAVEL, little silt, no odor, moist, poorly sorted, dense, no staining Dense, damp, slightly silty sandy gravel. Sands and silts are interstitial to gravels
Gravels are lithic and subrounded to rounded. Approx 1 cm gravels
No odor, no sheen

2.7

POORLY GRADED GRAVEL WITH SILT AND SAND, (GP) (2.5Y 4/1), gravel grained, SANDY GRAVEL, with shell frag, trace silt, no odor, moist, poorly sorted, loose, no staining
Loose, damp, sandy gravel with shells and very minor (<5%) silt. Gravels are subrounded to rounded
Shells are fragmented and partially weathered *Tresus saxidomus* and *Protothaca*

3.4

POORLY GRADED GRAVEL WITH CLAY AND SAND,

3.9

(GP-GC) (2.5Y 4/1), gravel grained, SANDY GRAVEL, slightly clay, no odor, damp, poorly graded, dense, no staining Dense, damp, slightly clayey, sandy gravel. Glacial. Pooly sorted and poorly graded. Gravels are lithic and subrounded to rounded

END OF CORE

Acquisition Depth -6.7 feet.
Actual bottom of borehole at 7.0 feet.

Surface Elevation has been corrected for Tide Height, and all subsequent elevations are calculated from Surface Elevation.
All depths expressed are distance below mudline.